

CLAIMS

What is claimed is:

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1. A method for cleaning pipe-shaped filter elements arranged in a housing including a separation wall dividing the housing into a clean gas space and a raw gas space into which the filter elements extend from the clean gas space through the separation wall, said raw gas space including means for supplying raw gas thereto and said clean gas space including an outlet for discharging clean gas therefrom and also a backflushing inlet for supplying backflushing gas to the clean gas space for backflushing the filter elements, said method comprising the steps of supplying, for cleaning said filter element, backflushing gas to said clean gas space through said backflushing inlet, while said outlet is blocked for momentarily forcing the gas in said clean gas space back through said filter elements into said raw gas space thereby dislodging any dust collected on said filter elements.

2. A method according to claim 1, wherein said backflushing inlet includes a flap valve arranged between a backflushing control valve and said clean gas space, said method comprising the step of opening said flap valve shortly before said backflushing valve is opened to provide for backflushing of said filter elements.

3. A method according to claim 1, wherein said backflushing is performed with a backflushing pressure which is higher than the pressure of said raw gas and said backflushing is performed momentarily during the filtering procedure.

4. A method according to claim 1, wherein said backflushing is performed using gas pulses.

5. A method according to claim 4, wherein said backflushing gas pulses through said filter elements consist mainly of clean hot gas.

6. An arrangement for cleaning pipe-shaped filter elements arranged in a housing with a separation wall dividing the housing into a raw gas space and a clean gas space, at least one tubular filter cartridge having a closed end and being mounted in said separation wall so as to extend with its closed end into said raw gas space, the open end of said tubular filter cartridge being disposed in said clean gas space, a safety filter element disposed on said at least one filter cartridge in said clean gas space, means for supplying raw gas to be cleaned to said raw gas space for passage through said at least one filter cartridge and said safety filter element into said clean gas space, an outlet arranged in said clean gas space for discharging the clean gas therefrom, a flushing gas inlet connected to said clean gas space for supplying backflushing gas to said clean gas space and a flow-dynamic control element having no moving parts disposed in said clean gas outlet which permits passage of the cleaned gases out of said clean gas space but which essentially blocks passage when backflushing gas under increased pressure is admitted to said clean gas space through said flushing gas inlet.

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7. An arrangement according to claim 6, wherein said flushing gas inlet includes a rapidly operating flushing gas control valve and a temperature resistant flap valve disposed between said rapidly operating flushing gas control valve and said clean air space to protect said rapidly operating flushing gas valve from excessive temperatures.

8. An arrangement according to claim 6, wherein said flow-dynamic control element consist of a honeycomb-like body with honeycomb passages extending therethrough and having cross-sections of only a few mm².

9. An arrangement according to claim 6, wherein said honeycomb-like body consist of a ceramic material.

10. An arrangement according to claim 9, wherein said ceramic material is one of SiC, A₂O₃, Cardierit and Spinell.

11. An arrangement according to claim 6, wherein said housing includes a cover arranged in spaced relationship from said separation wall and said safety filters disposed on top of said filter cartridges are engaged between said filter cartridges and said cover.

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